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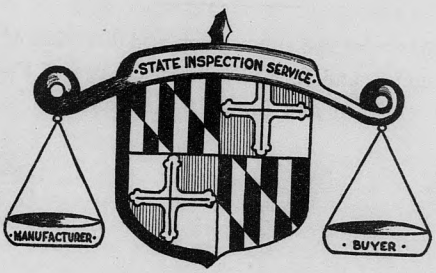
COMMERCIAL FERTILIZERS

This Bulletin Constitutes a Complete Report of the Commercial Fertilizer Inspection in Maryland from July 1, 1926, to January 1, 1927.



STATE FERTILIZER INSPECTION SERVICE
Controlled by
UNIVERSITY OF MARYLAND
COLLEGE PARK, MD.

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COMMERCIAL FERTILIZERS

JULY 1, 1926—DECEMBER 31, 1926

Compiled and edited under the supervision and direction of Neil E. Gordon,
State Chemist, and L. E. Bopst, in charge of Fertilizer,
Feed and Lime Departments.

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The inspection, analysis and control of work of the fertilizer, feed and lime trade is carried on by the State Department, but the State Department is so related to the chemical work of the University that the other men of the Chemical Staff who are mentioned below may be called on for help in time of need; and, furthermore, it is the purpose of the majority of this Chemical Staff to be carrying on some investigations which bear directly or indirectly on the properties of fertilizer, feed and lime.

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INTRODUCTION

This publication is a report of the inspection of commercial fertilizers in Maryland made under the authority of the special act of the State Legislature entitled, "An Act to Provide for the Inspection of Commercial Fertilizers and to Regulate the Sale Thereof." This work is intrusted to the University of Maryland and is directly supervised by the Inspection Service, a branch of the Chemistry Department.

The samples of fertilizer herein reported were collected by official sampling agents of the Department in the regular discharge of their duties. From July 1, until the close of the shipping season, 428 samples were selected, reports covering 418 of which are included in this bulletin and represent sales made during the fall season. All of these samples were analyzed for the purpose of establishing the correctness of the guarantees found on the sacks or attached cards. Results of these analyses have been reported to the respective manufacturers, dealers and, whenever possible, to the buyers.

For the purpose of discussion, samples reported in this publication may be included in five general classes, which, together with the number of samples in each, were as follows:

Two hundred and twenty-six complete fertilizers containing ammonia, available phosphoric acid and water soluble potash; 74 acid phosphate and potash fertilizers, supplying available phosphoric acid and water soluble potash; 44 acid phosphate fertilizers supplying available phosphoric acid; 14 ground bone fertilizers guaranteed to contain ammonia and total phosphoric acid, and 60 brands of a miscellaneous nature, among which may be found tankage, sulphate of ammonia, kainit, muriate of potash, etc.

In addition to the analyses of the official samples, included in this report, 67 samples, drawn and forwarded to us by purchasers under the provisions of Section 9 of the Maryland Fertilizer Law, have been examined in our laboratories and reports of such analyses have been transmitted to the parties specifically interested.

The fall inspection, as a whole, may be taken as a clear indication that the majority of fertilizer manufacturers are interested solely in the manufacture and sale of legitimate products.

SUMMARY OF FERTILIZER INSPECTION FROM JULY 1, 1926, TO JANUARY 1, 1927.

NAME OF MANUFACTURER	No. of Samples Reported	No. Equal to Guarantee in every Particular	No. Equal in Value to Guarantee	No. Without 10% of Value of Guarantee	No. Deficient by more than 10% of Value Guaranteed
Agricultural Corporation of Maryland	14	8	12	2	..
American Agricultural Chemical Company	33	23	32	1	..
American Fertilizing Company	9	7	8	1	..
Armour Fertilizer Works	23	15	20	3	..
Associated Chemical Company	1	1	1	..	..
Baltimore Fertilizer Company	7	0	4	3	..
Baltimore Pulverizing Company	4	2	4	..	..
Baugh and Sons Company	25	18	23	2	..
J. Bolgiano Seed Company, Inc.	4	3	4	..	..
Bon Arbor Chemical Company	1	1	1	..	..
Herbert Bryant's Son	8	2	6	2	..
Bryant Fertilizer Company	1	0	1	..	..
Central Chemical Company	9	5	5	4	..
Edward T. Clark	2	2	2	..	..
Delaware River Chemical Works	2	0	0	2	..
L. E. P. Dennis and Son Company	2	0	2	..	..
Devilbiss Brothers	3	3	3	..	..
Diamond Fertilizer Company	1	0	1	..	..
Dorchester Fertilizer Company	5	3	4	1	..
Earp-Thomas Cultures Corporation	1	0	1	..	..
Edelen Brothers	3	2	3	..	..
Eureka Fertilizer Company	1	0	0	1	..
Excell Laboratories	1	0	1	..	..
Farmers Fertilizer and and Feed Company	6	5	6	..	..
Farmers and Planters Company	3	3	3	..	..
Frederick County Farmers Cooperative Association	1	1	1	..	..
Frederick Mehring Fertilizer Works	4	2	4	..	..
Griffith and Boyd Company	9	7	8	..	1
Griffith and Turner Company	7	2	6	1	..
Hampstead Fertilizer Company	5	0	3	2	..
Herbert F. Harr	1	1	1	..	..
Horsey Roe and Company	4	4	4	..	..
Hubbard Fertilizer Company	3	2	3	..	..
M. P. Hubbard and Company, Inc.	2	0	1	1	..
Jarecki Chemical Company	2	1	2	..	..
Kuttroff, Pickhardt and Company, Inc.	2	2	2	..	..
J. Manns and Company	1	1	1	..	..
Maryland Milling and Supply Company	6	3	5	1	..
Massey and Wilmer	6	3	6	..	..
Medford Fertilizer Works	4	0	1	1	2
Miller Fertilizer Company	11	9	10	..	1
Natural Guano Company	1	0	1	..	..

SUMMARY OF FERTILIZER INSPECTION FROM JULY 1, 1926, TO JANUARY 1, 1927.

NAME OF MANUFACTURER	No. of Samples Reported	No. Equal to Guarantee in every Particular	No. Equal in Value to Guarantee	No. Without 10% of Value of Guarantee	No. Deficient by more than 10% of Value Guaranteed
Nitrate Agencies Company	5	4	4	1	..
G. Ober and Sons Company	17	12	13	4	..
Old Gardener Company	1	0	1	..	..
Oyler and Spangler Fertilizer Works	2	2	2	..	..
Pacific Manure and Fertilizer Company	1	1	1	..	..
Patuxent Guano Company	4	3	3	1	..
Peerless Fertilizer Company	10	7	10	..	..
Piedmont- Mt. Airy Guano Company	17	9	15	2	..
Plant Biscuit Company	1	1	1	..	..
Plant Products Company	2	2	2	..	..
Pulverized Manure Company	3	2	2	1	..
Ramsburg Fertilizer Company	4	1	4	..	..
Raisin Monumental Company	4	3	4	..	..
Reindollar Company	4	4	4	..	..
F. S. Royster Guano Company	13	10	12	1	..
W. A. Simpson Company	1	0	1	..	..
R. H. Slingluff Fertilizer Company	2	1	2	..	..
Stumpp and Walter Company	2	1	2	..	..
Summers Fertilizer Company	4	1	3	1	..
Superior Guano Company	5	4	5	..	..
Swift and Company	9	5	8	1	..
Thomas and Company	7	1	5	1	1
Wm. B. Tilghman Company, Inc.	9	8	9	..	..
F. W. Tunnell and Company	3	3	3	..	..
United States Guano Company	11	7	9	2	..
Valliant Fertilizer Company	2	2	2	..	..
E. S. Valliant and Son	11	4	11	..	..
W. H. Valliant and Brother	3	3	3	..	..
Virginia-Carolina Chemical Company	7	4	5	2	..
Westminster Fertilizer Company	5	1	4	1	..
White Rose Plant Food Company	1	1	1	..	..
Wiseman-Downs Company	2	1	2	..	..
Worcester Fertilizer Company, Inc.	3	2	3	..	..
R. B. Wyand	5	2	3	2	..
Totals	418	253	366	47	5

An examination of the above report indicates a slight improvement in inspection records as compared to the corresponding period of 1925. Approximately 40% of the brands sampled failed to meet their guarantees in every particular, yet only 12½% are deficient in value. Five brands, or ap-

proximately 1% of the samples taken, failed by more than 10% of meeting the value guaranteed.

It is evident that the majority of Maryland farmers are obtaining value received for money expended in fertilizer purchases.

COMMERCIAL VALUES

The valuations adopted for the past fall season and which are given below are chiefly of use in making comparisons of the relative values of the various fertilizers analyzed from July 1, 1926, to January 1, 1927.

It has been found impossible to fix a single scale of valuations adapted to the numerous points of consumption throughout the State, as there is in some cases quite a difference existing in the transportation charges from points of manufacture to user. It is our desire to show the average cost of fertilizer materials to manufacturers f. o. b. Baltimore, without taking into consideration expenses incidental to manufacture and distribution together with a fair manufacturer's profit.

The valuations employed in this bulletin for calculating the approximate relative values of fertilizers are as follows:

TABLE FOR CALCULATING FERTILIZER VALUES

	Per Unit
(1) Nitrogen calculated as ammonia	$4.00
(2) Available phosphoric acid:	
(a) In mixed fertilizers or in dissolved rock	.80
(b) In tankage or ground bone	.60
(3) Insoluble phosphoric acid	.15
(4) Potash	.80

VALUES

To compute values of fertilizers on this scale multiply the percentage of each plant food in the fertilizer by the respective value per unit given in the table and add the results together.

Take for example a complete fertilizer with an analysis of 2-8-5. We would have two per cent. of ammonia, eight per cent. of phosphoric acid and five per cent. of potash. Since by the preceding table ammonia is worth $4.00 per unit; available phosphoric acid, 80 cents; and potash, 80 cents, we have $18.40.

2 x $4.00	$8.00 value of ammonia
8 x .80	6.40 value of phosphoric acid
5 x .80	4.00 value of potash
	$18.40 value of fertilizer per ton.

TABLES

The following pages contain the guarantees and analyses of 418 brands of commercial fertilizers examined from July 1, 1926, to January 1, 1927.

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		PHOSPHORIC ACID				POTASH K_2O.		Comparative Value per Ton Found	Comparative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
Agricultural Corporation of Maryland, Baltimore, Md.													
Maryland Acid Phosphate	Havre De Grace	....	....	....	....	**.60**	....	**17.75**	16.00	....	....	$14.29	$12.80
Maryland Acid Phosphate	Baltimore	....	....	....	....	**.25**	....	**16.75**	16.00	....	....	**13.44**	12.80
Maryland Public Formula, 2-8-5	Baltimore	**1.28**	.50	**1.69**	2.00	**.30**	....	**8.35**	8.00	**5.00**	5.00	**17.49**	18.40
Maryland Public Formula, 2-8-5	Aberdeen	**1.60**	.50	**2.01**	2.00	**.40**	....	**8.10**	8.00	**5.28**	5.00	**18.80**	18.40
Maryland Public Formula, 2-8-5	Havre De Grace	**1.57**	.50	**2.00**	2.00	**.63**	....	**7.72**	8.00	**5.72**	5.00	**18.85**	18.40
Maryland Public Formula, 2-8-10	Havre De Grace	**1.40**	.50	**2.00**	2.00	**1.03**	....	**8.57**	8.00	**11.52**	10.00	**24.23**	22.40
Maryland Public Formula, 2-8-10	Aberdeen	**1.91**	.50	**2.46**	2.00	**.93**	....	**7.97**	8.00	**10.08**	10.00	**24.42**	22.40
Maryland Public Formula, 2-8-10	Baltimore	**1.58**	.50	**2.06**	2.00	**.45**	....	**9.05**	8.00	**10.00**	10.00	**23.55**	22.40
Maryland Public Formula, 0-12-5	Baltimore	....	....	....	....	**.55**	....	**12.05**	12.00	**5.12**	5.00	**13.82**	13.60
Maryland Public Formula, 0-12-5	Baltimore	....	....	....	....	**.15**	....	**12.75**	12.00	**5.12**	5.00	**14.32**	13.60
Maryland Public Formula, 0-12-5	Havre De Grace	....	....	....	....	**.70**	....	**12.00**	12.00	**5.12**	5.00	**13.81**	13.60
Maryland Public Formula, 3-8-3	Havre De Grace	**2.68**	....	**2.99**	3.00	**.73**	....	**7.57**	8.00	**3.16**	3.00	**20.66**	20.80
Maryland Public Formula, 3-8-3	Aberdeen	**2.69**	....	**3.07**	3.00	**.48**	....	**7.67**	8.00	**3.64**	3.00	**21.40**	20.80
Maryland Public Formula, 3-12-3	Aberdeen	**2.61**	....	**2.99**	3.00	**.75**	....	**11.75**	12.00	**3.64**	3.00	**24.38**	24.00
American Agricultural Chemical Co., New York, N. Y.													
Acid Phosphate	Baltimore	....	....	....	....	**1.45**	....	**16.55**	16.00	....	....	**13.46**	12.80
Acid Phosphate	Baltimore	....	....	....	....	**.95**	....	**16.05**	16.00	....	....	**12.98**	12.80
Acme Fertilizer	Baltimore	**.70**	.43	**1.01**	1.00	**.95**	....	**9.05**	9.00	**4.20**	4.00	**14.78**	14.40
Acme Fertilizer	Baltimore	**.55**	.43	**.89**	1.00	**.98**	....	**9.32**	9.00	**4.36**	4.00	**14.66**	14.40
Agrico Fertilizer for Grain	Baltimore	**1.64**	1.03	**1.98**	2.00	**1.50**	....	**12.20**	12.00	**4.00**	4.00	**21.11**	20.80
Agrico Fertilizer for Grain	Baltimore	**1.83**	1.03	**2.17**	2.00	**.85**	....	**12.35**	12.00	**4.16**	4.00	**22.02**	20.80
Basic Lime Phosphate	Hancock	....	....	....	....	**2.18**	....	**12.91**	13.00	....	....	**10.66**	10.40

Basic Lime Phosphate	Baltimore	....	....	....	....	**2.25**	....	**13.05**	13.00	....	....	**10.78**	10.40
Basic Lime Phosphate	Baltimore	....	....	....	....	**.85**	....	**14.15**	13.00	....	....	**11.45**	10.40
Farmers Friend Fertilizer	Baltimore	**1.73**	1.03	**2.00**	2.00	**1.30**	....	**12.00**	12.00	**4.32**	4.00	**21.26**	20.80
Farmers Friend Fertilizer	Baltimore	**1.92**	1.03	**2.18**	2.00	**.90**	....	**12.40**	12.00	**4.28**	4.00	**22.20**	20.80
Fine Ground Bone	Upper Marlboro	....	....	**3.37**	3.00	....	....	***25.70**	*22.89	....	....	**28.90**	25.73
Great Planet Double Strength Fertilizer	Baltimore	**1.67**	1.03	**2.05**	2.00	**.90**	....	**16.20**	16.00	**8.12**	8.00	**27.80**	27.20
Kainit	Baltimore	....	....	....	....	....	....	....	....	**14.50**	12.40	....	....
Kangaroo Komplete Kompound	Baltimore	**1.43**	1.03	**1.91**	2.00	**1.50**	....	**8.80**	9.00	**3.56**	3.00	**17.76**	17.60
Monarch Fertilizer	Upper Marlboro	**3.35**	2.13	**3.83**	4.00	**.90**	....	**8.60**	8.00	**4.08**	4.00	**25.60**	25.60
Pure Raw Bone	Baltimore	....	....	**4.34**	4.50	....	....	***22.90**	*21.51	....	....	**31.10**	30.91
Red Dog Fertilizer	Baltimore	**1.71**	1.03	**2.05**	2.00	**1.00**	....	**8.20**	8.00	**5.00**	5.00	**18.91**	18.40
Red Dog Fertilizer	Baltimore	**1.66**	1.03	**2.00**	2.00	**1.15**	....	**8.05**	**8.00**	**5.00**	5.00	**18.61**	18.40
Red Dragon Fertilizer	Baltimore	**1.76**	1.03	**2.05**	2.00	**1.53**	....	**12.47**	12.00	**2.24**	2.00	**20.20**	19.20
Three Star Mixture	Baltimore	....	....	....	....	**.55**	....	**10.35**	10.00	**3.46**	4.00	**11.13**	11.20
Three Star Mixture	Baltimore	....	....	....	....	**.60**	....	**9.90**	10.00	**4.00**	4.00	**11.21**	11.20
Victory Mixture	Baltimore	....	....	....	....	**.65**	....	**12.35**	12.00	**5.12**	5.00	**14.08**	13.60
Victory Mixture	Baltimore	....	....	....	....	**.80**	....	**12.10**	12.00	**5.28**	5.00	**14.02**	13.60
Victory Mixture	Baltimore	....	....	....	....	**.60**	....	**12.50**	12.00	**5.20**	5.00	**14.25**	13.60
Lister's Acid Phosphate H. G.	Baltimore	....	....	....	....	**1.70**	....	**16.30**	16.00	....	....	**13.30**	12.80
Lister's Acid Phosphate H. G.	Baltimore	....	....	....	....	**1.25**	....	**16.45**	16.00	....	....	**13.35**	12.80
Lister's Harvest Queen Fertilizer	Baltimore	**1.69**	1.03	**2.03**	2.00	**1.15**	....	**8.05**	8.00	**5.16**	5.00	**18.86**	18.40
Patapsco Acid Phosphate H. G.	Baltimore	....	....	....	....	**1.50**	....	**16.40**	16.00	....	....	**13.35**	12.80
Patapsco Apex Mixture	Baltimore	....	....	....	....	**.75**	....	**12.35**	12.00	**5.24**	5.00	**14.18**	13.60
Patapsco Coon Brand Fertilizer	Baltimore	**.77**	.43	**1.01**	1.00	**.80**	....	**9.90**	9.00	**4.04**	4.00	**15.31**	14.40
Patapsco Coon Brand Fertilizer	Baltimore	**.78**	.43	**1.02**	1.00	**.95**	....	**9.25**	9.00	**4.20**	4.00	**14.98**	14.40
Wheeler's Acid Phosphate H. G.	Hancock	....	....	....	....	**1.45**	....	**16.35**	16.00	....	....	**13.30**	12.80
American Fertilizer Co., Balto., Md.													
Acid Phosphate H. G.	Baltimore	....	....	....	....	**.85**	....	**16.05**	16.00	....	....	**12.97**	12.80
Acid Phosphate H. G.	Baltimore	....	....	....	....	**.85**	....	**16.05**	16.00	....	....	**12.97**	12.80
Champion Grain Grower	Baltimoer	**.70**	.49	**1.01**	1.00	**.55**	....	**9.75**	9.00	**4.00**	4.00	**15.12**	14.40
Champion Grain Grower	Baltimore	**.70**	.49	**1.09**	1.00	**.70**	....	**9.10**	9.00	**4.08**	4.00	**15.01**	14.40
Double Special Brand	Baltimore	**3.65**	2.00	**3.99**	4.00	**.50**	....	**16.10**	16.00	**6.32**	6.00	**33.98**	33.60
High Grade Potash Mixture	Baltimore	....	....	....	....	**1.10**	....	**12.50**	12.00	**5.28**	5.00	**14.39**	13.60
High Grade Potash Mixture	Baltimore	....	....	....	....	**.80**	....	**12.40**	12.00	**5.32**	5.00	**14.30**	13.60
High Grade Potash Mixture	Hancock	....	....	....	....	**.90**	....	**12.20**	12.00	**5.00**	5.00	**13.90**	13.60
Special Potash Mixture	Hancock	....	....	....	....	**.65**	....	**9.35**	10.00	**4.16**	4.00	**10.91**	11.20

* Total Phosphoric Acid.

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		PHOSPHORIC ACID				POTASH K_2O.		Comparative Value per Ton Found	Comparative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
Armour Fertilizer Works, Baltimore, Md.													
Big Crop Acid Phosphate 16%	Baltimore	....	....	....	....	**.85**	....	**17.05**	16.00	....	....	**$13.77**	$12.80
Big Crop Acid Phosphate 16%	Baltimore	....	....	....	....	**.70**	....	**16.20**	16.00	....	....	**13.07**	12.80
Big Crop Bone Meal	Laurel	....	....	**4.94**	4.50	....	....	***19.37**	*21.50	....	....	**31.38**	30.90
Big Crop 4-16-4	Baltimore	**3.79**	2.00	**4.01**	4.00	**.70**	....	**16.90**	16.00	**4.16**	4.00	**33.00**	32.00
Big Crop 2-8-5	Baltimore	**1.37**	1.00	**2.00**	2.00	**.85**	....	**8.20**	8.00	**5.24**	5.00	**18.88**	18.40
Big Crop 2-8-5	Baltimore	**1.64**	1.00	**2.08**	2.00	**.70**	....	**7.90**	8.00	**4.74**	5.00	**18.54**	18.40
Big Crop 2-8-5	Baltimore	**1.45**	1.00	**2.03**	2.00	**.55**	....	**8.15**	8.00	**5.28**	5.00	**18.94**	18.40
Big Crop 2-8-5	Laurel	**1.30**	1.00	**1.95**	2.00	**.50**	....	**8.70**	8.00	**4.59**	5.00	**18.51**	18.40
Big Crop 2-8-10	Baltimore	**1.61**	1.00	**2.00**	2.00	**1.05**	....	**8.25**	8.00	**8.48**	10.00	**21.54**	22.40
Big Crop 2-8-10	Baltimore	**1.43**	1.00	**2.08**	2.00	**.70**	....	**8.30**	8.00	**8.08**	10.00	**21.53**	22.40
Big Crop 2-16-8	Baltimore	**1.76**	1.00	**2.00**	2.00	**.75**	....	**16.05**	16.00	**9.00**	8.00	**28.15**	27.20
Big Crop 2-16-8	Baltimore	**1.91**	1.00	**2.08**	2.00	**.70**	....	**16.15**	16.00	**8.08**	8.00	**27.81**	27.20
Big Crop 2-16-8	Cumberland	**1.93**	1.00	**2.03**	2.00	**.40**	....	**17.20**	16.00	**8.16**	8.00	**28.47**	27.20
Big Crop 2-16-8	Keymar	**1.93**	1.00	**2.10**	2.00	**.50**	....	**15.80**	16.00	**8.40**	8.00	**27.84**	27.20
Big Crop 2-16-8	Pylesville	**2.10**	1.00	**2.27**	2.00	**.58**	....	**16.12**	16.00	**8.32**	8.00	**28.73**	27.20
Big Crg 0-12-5	Baltimore	....	....	....	....	**.90**	....	**12.20**	12.00	**5.28**	5.00	**14.12**	13.60
Big Crop 0-12-5	Baltimore	....	....	....	....	**.95**	....	**12.05**	12.00	**5.56**	5.00	**14.23**	13.60
Big Crop 0-12-5	Baltimore	....	....	....	....	**.90**	....	**12.15**	12.00	**4.84**	5.00	**13.73**	13.60
Big Crop 0-12-5	Baltimore	....	....	....	....	**.90**	....	**12.00**	12.00	**5.08**	5.00	**13.80**	13.60
Big Crop 0-10-4	Baltimore	....	....	....	....	**.75**	....	**10.65**	10.00	**4.28**	4.00	**12.05**	11.20
Kainit	Baltimore	....	....	....	....	....	....	....	....	**14.16**	12.00	....	....
Lime Phosphate	Baltimore	....	....	....	....	**1.83**	....	**12.57**	13 00	....	....	**10.33**	10.40
Sheep Manure	Cumberland	....	....	**1.59**	1.50	....	....	***1.30**	*1.00	**2.76**	2.50	**9.35**	8.60

Associated Chemical Co., Baltimore, Md.													
Muriate of Potash	Hancock	....	....	....	....	....	....	....	....	**54.20**	50.00	....	....
Baltimore Fertilizer Co., Baltimore, Md.													
Honest Trucker	Baltimore	**4.16**	2.49	**4.83**	5.00	**1.05**	....	**7.10**	7.00	**5.08**	5.00	**29.22**	29.60
Honest 2-8-5	Baltimore	**1.18**	1.00	**1.69**	2.00	**1.05**	....	**8.05**	8.00	**5.28**	5.00	**17.58**	18.40
Honest 2-8-5	Baltimore	**1.11**	1.00	**1.66**	2.00	**1.00**	....	**8.20**	8.00	**5.00**	5.00	**17.35**	18.40
Honest 2-8-5	Bel Air	**1.26**	1.00	**2.06**	2.00	**1.20**	....	**9.70**	8.00	**4.64**	5.00	**19.89**	18.40
Honest 0-10-5	Baltimore	....	....	....	....	**1.15**	....	**9.95**	10.00	**4.68**	5.00	**11.87**	12.00
Old Honesty	Baltimore	**.60**	.48	**1.06**	1.00	**1.10**	....	**10.90**	11.00	**2.36**	2.00	**15.02**	14.40
Old Honesty	Baltimore	**.55**	.48	**.99**	1.00	**.95**	....	**10.75**	11.00	**2.32**	2.00	**14.56**	14.40
Baltimore Pulverizing Co., Baltimore, Md.													
Harvest King	Baltimore	**.50**	.60	**1.11**	1.00	**2.45**	....	**10.00**	10.00	**3.28**	2.00	**15.43**	13.60
Ideal Fertilizer	Baltimore	**1.57**	1.21	**2.01**	2.00	**1.15**	....	**8.95**	8.00	**5.12**	5.00	**19.47**	18.40
Spring and Fall Mixture	Baltimore	....	....	....	....	**1.00**	....	**7.90**	8.00	**6.42**	5.00	**11.61**	10.40
Spring and Fall Mixture	Baltimore	....	....	....	....	**1.05**	....	**7.35**	8.00	**6.78**	5.00	**11.46**	10.40
Baugh & Sons Co., Baltimore, Md.													
Acid Phospnate	Baltimore	....	....	....	....	**1.45**	....	**16.45**	16.00	....	....	**13.38**	12.80
Acid Phosphate	Baltimore	....	....	....	....	**1.45**	....	**16.25**	16.00	....	....	**13.22**	12.80
Acid Phosphate	Baltimore	....	....	....	....	**1.25**	....	**16.45**	16.00	....	....	**13.35**	12.80
Acid Phosphate	Baltimore	....	....	....	....	**1.00**	....	**16.10**	16.00	....	....	**13.03**	12.80
Bone Meal	Baltimore	....	....	**3.00**	3.00	....	....	***25.10**	***23.00**	....	....	**27.06**	25.80
Complete Animal Base	Baltimore	**1.54**	.90	**2.10**	2.00	**1.30**	....	**8.10**	8.00	**5.24**	5.00	**19.27**	18.40
Complete Animal Base	Baltimore	**1.50**	.90	**1.98**	2.00	**1.00**	....	**8.00**	8.00	**5.12**	5.00	**18.57**	18.40
Complete Animal Base	Dickerson	**1.53**	.90	**2.08**	2.00	**1.05**	....	**7.70**	8.00	**5.20**	5.00	**18.80**	18.40
Complete Animal Base	Baltimore	**1.44**	.90	**2.00**	2.00	**1.20**	....	**8.00**	8.00	**5.20**	5.00	**18.74**	18.40
Commercial Superphosphate	Baltimore	**1.49**	.90	**2.00**	2.00	**1.20**	....	**9.30**	8.00	**10.00**	10.00	**23.62**	22.40
Double Eagle Phosphate	Keymar	**1.76**	.90	**2.15**	2.00	**1.25**	....	**11.65**	12.00	**4.24**	4.00	**21.50**	20.80
Double Eagle Phosphate	Grantsville	**1.40**	.90	**1.98**	2.00	**1.40**	....	**12.20**	12.00	**4.16**	4.00	**21.22**	20.80
Excelsior Guano	Baltimore	**.44**	.60	**1.02**	1.00	**1.15**	....	**9.15**	9.00	**4.12**	4.00	**14.87**	14.40
Excelsior Guano	Baltimore	**.65**	.60	**1.13**	1.00	**1.30**	....	**9.10**	9.00	**4.20**	4.00	**15.36**	14.40
Half & Half Mixture with Potash	Baltimore	**.51**	....	**1.60**	1.50	**6.05**	....	**11.85**	10.00	**5.00**	5.00	**20.79**	18.00

* Total Phosphoric Acid.

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		PHOSPHORIC ACID				POTASH K_2O.		Comparative Value per Ton Found	Comparative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
Baugh & Sons Co., Baltimore, Md.— Continued.													
Lime & Phosphate	Baltimore	....	....	....	....	**2.70**	....	**13.20**	13.00	....	....	**$10.97**	$10.40
Lime & Phosphate	Baltimore	....	....	....	....	**3.00**	....	**13.80**	13.00	....	....	**11.49**	10.40
Phosphate & Potash Mixture	Baltimore	....	....	....	....	**1.35**	....	**12.05**	12.00	**5.00**	5.00	**13.84**	13.60
Phosphate & Potash Mixture	Baltimore	....	....	....	....	**.70**	....	**12.30**	12.00	**5.24**	5.00	**14.14**	13.60
Raw Bone Meal	Baltimore	....	....	**4.49**	4.50	....	....	***20.35**	*21.50	....	....	**30.17**	30.90
Raw Bone Meal	Baltimore	....	....	**4.57**	4.50	....	....	***20.80**	*21.50	....	....	**30.76**	30.90
Wheat Fertilizer	Baltimore	**1.59**	.90	**2.00**	2.00	**1.40**	....	**9.20**	9.00	**3.00**	3.00	**17.97**	17.60
Wheat Fertilizer	Baltimore	**1.63**	.90	**2.06**	2.00	**1.40**	....	**9.30**	9.00	**3.20**	3.00	**18.45**	17.60
Wheat Fertilizer	Baltimore	**1.55**	.90	**2.13**	2.00	**1.58**	....	**8.82**	9.00	**3.28**	3.00	**18.44**	17.60
Wheat Fertilizer	Baltimore	**1.40**	.90	**2.03**	2.00	**1.35**	....	**9.25**	9.00	**3.24**	3.00	**18.31**	17.60
J. Bolgiano Seed Co., Inc., Baltimore, Md.													
Bone Meal	Baltimore	....	....	**4.59**	3.00	....	....	***23.00**	*23.00	....	....	**32.16**	25.80
Square Deal Bone Meal	Baltimore	....	....	**4.67**	3.00	....	....	***24.70**	*22.89	....	....	**33.50**	25.73
Square Deal Blood Meal	Baltimore	....	....	**17.06**	16.00	....	....	***1.10**	*2.00	....	....	**68.90**	65.20
Square Deal Lawn Dressing	Baltimore	....	....	**2.59**	2.50	....	....	***1.70**	*1.50	**2.00**	2.00	**12.98**	12.50
Bon Arbor Chemical Co., Paterson, N. J.													
Unsurpassed Soluble Plant Life	Baltimore	**19.05**	....	**19.12**	19.00	....	....	**5.80**	4.00	**6.68**	4.00	**86.46**	82.40

Herbert Bryant's Son, Alexandria, Va.														
Beef, Bone & Potash	Gaithersburg	.80	.31	1.43	1.25	1.40	....	7.90	9.00	2.32	2.00	14.11	13.80
Belle Haven Ammoniated Bone	Dickerson	1.36	....	2.08	2.00	1.20	....	9.00	8.00	3.18	5.00	18.24	18.40
Genuine Fish, Bone & Potash	Dickerson	1.21	.31	2.01	2.00	1.40	....	9.00	9.00	2.36	2.00	17.34	16.80
Genuine Fish, Bone & Potash	Laurel	1.31	.31	1.99	2.00	1.00	....	9.00	9.00	2.66	2.00	18.24	16.80
Golden Grain Grower	Dickerson	1.86	.60	3.14	2.00	1.80	....	10.80	12.00	2.36	2.00	23.36	19.20
High Grade Fish & Potash	Gaithersburg	1.18	.60	1.74	2.00	1.50	....	8.60	8.00	3.24	3.00	16.66	16.80
Pure Animal Bone Meal	Gaithersburg	....	....	4.78	4.50	....	....	*21.20	*21.50	....	....	31.84	30.90
Soluble Phosphate & Potash	Gaithersburg	....	....	....	....	.50	....	12.70	12.00	5.98	5.00	15.02	13.60
Bryant Fertilizer Co., Baltimore, Md.														
Burbank Brand	Baltimore	1.24	.78	2.01	2.00	2.00	....	8.70	9.00	3.36	3.00	17.99	17.60
Central Chemical Co., Hagerstown, Md.														
"Gro-All" Garbo Lime Phosphate	Hancock	....	....	....	....	1.40	....	13.40	13.00	....	....	10.93	10.40
"Gro-All" Crown Jewel	Motters	.58	.60	1.01	1.00	.65	....	9.05	9.00	4.00	4.00	14.58	14.40
"Gro-All" Crown Jewel	Frederick	.44	.60	.90	1.00	.80	....	9.05	9.00	4.00	4.00	14.16	14.40
"Gro-All" Dissolved Phosphate	Hancock	....	....	....	....	1.13	....	15.67	16.00	....	....	12.71	12.80
"Gro-All" Excelsior	Frederick	1.28	.60	1.86	2.00	1.35	....	8.15	8.00	4.68	5.00	17.90	18.40
"Gro-All" Excelsior	Motters	1.40	.60	2.05	2.00	1.40	....	8.00	8.00	5.00	5.00	18.81	18.40
"Gro-All" Pioneer	Hancock	....	....	....	....	.98	....	10.12	10.00	4.00	4.00	11.45	11.20
"Gro-All" Potash Special	Frederick	....	....	....	....	.80	....	12.20	12.00	5.36	5.00	14.17	13.60
"Gro-All" Super-Fish	Frederick	.85	.60	2.08	2.00	1.33	....	12.17	12.00	5.14	6.00	22.37	22.40
Edward T. Clark, Ellicott City, Md.														
Mixture C 2¼ -10-4	Ellicott City	.68	....	2.49	2.25	3.80	....	11.40	10.00	4.36	4.00	23.14	20.20
Mixture D. 2-9-2	Ellicott City	.58	.50	2.15	2.00	2.70	....	9.50	9.00	2.40	2.00	18.53	16.80
Delaware River Chemical Works, Baltimore, Md.														
Raw Bone Meal	Baltimore	....	....	4.59	4.50	....	....	*20.75	*21.50	....	....	30.81	30.90
2-9-3	Baltimore	1.31	.85	1.87	2.00	1.30	....	9.25	9.00	3.12	3.00	17.58	17.60

* Total Phosphoric Acid.

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		PHOSPHORIC ACID				POTASH K_2O.		Comparative Value per Ton Found	Comparative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
L. E. P. Dennis & Son Co., Crisfield, Md.													
2-10-5 Fish Fertilizer	Crisfield	**1.35**	.67	**2.46**	2.00	**1.55**	....	**9.85**	10.00	**5.20**	5.00	$**22.11**	$20.00
3-10-6 Fish Fertilizer	Crisfield	**2.03**	.85	**3.11**	3.00	**.90**	....	**9.80**	10.00	**6.36**	6.00	**25.51**	24.80
Devilbiss Bros., New Windsor, Md.													
Acid Phosphate	New Windsor	....	....	....	....	**.23**	....	**16.77**	16.00	....	....	**13.45**	12.80
Butcher House Phosphate	New Windsor	**.85**	.30	**1.40**	1.00	**.85**	....	**10.35**	10.00	**5.36**	5.00	**18.30**	16.00
Wheat Grower	New Windsor	**.61**	.30	**1.19**	1.00	**.75**	....	**9.35**	9.00	**3.36**	3.00	**15.04**	13.60
Diamond Fertilizer Co., Balto., Md.													
Wonder Grower	Baltimore	**4.52**	.60	**5.12**	5.00	**.80**	....	**8.50**	8.00	**4.62**	5.00	**31.10**	30.40
Dorchester Fertilizer Co., Cambridge, Md.													
Ammoniated Potash Mixture	Cambridge	**.60**	.60	**.86**	1.00	**.85**	.....	**11.75**	12.00	**5.58**	5.00	**17.43**	17.60
Old Dorset	Cambridge	**.61**	.60	**1.02**	1.00	**1.05**	.....	**9.35**	9.00	**4.60**	4.00	**15.40**	14.40
Our Special	Cambridge	**1.74**	1.15	**2.08**	2.00	**.30**	.....	**8.60**	8.00	**6.60**	5.00	**20.53**	18.40
Our Special	Vienna	**1.62**	1.15	**2.05**	2.00	**.63**	.....	**8.22**	8.00	**5.68**	5.00	**19.41**	18.40
Wheat Grower	Cambridge	.....	.....	.....	.....	**.75**	.....	**11.55**	12.00	**7.42**	6.00	**15.29**	14.40
Earp-Thomas Cultures Corp., Long Island City, N. Y.													
Stim-U-planT	Baltimore	**12.85**	.....	**12.92**	13.35	**.20**	.....	**13.70**	12.00	**16.46**	15.00	**75.84**	75.00

Edelen Bros., Baltimore, Md.													
Wheat and Grain Mixture	Baltimore	**.51**	.60	**1.02**	1.00	**.80**		**9.60**	9.00	**4.00**	4.00	**15.08**	14.40
Wheat and Grain Mixture	Baltimore	**.77**	.60	**1.18**	1.00	**1.05**		**9.12**	9.00	**4.16**	4.00	**15.51**	14.40
Wheat and Grain Mixture	Baltimore	**.50**	.60	**1.01**	1.00	**1.05**		**8.95**	9.00	**4.00**	4.00	**14.56**	14.40
Eureka Fertilizer Co., Perryville, Md.													
2–8–5	Rising Sun	**1.09**		**1.47**	2.00	**.85**		**10.45**	8.00	**4.36**	5.00	**17.86**	18.40
Excell Laboratories, Chicago, Ill.													
Zenke's "New Plant Life" (Liquid)	Baltimore			**2.26**	1.40			***.30**	*1.07	**1.76**	.54	**10.63**	6.67
Farmers Fertilizer and Feed Co., Westminster, Md.													
Acid Phosphate	Westminster					**1.35**		**15.95**	16.00			**12.96**	12.80
Acid and Potash	Westminster					**.85**		**12.35**	12.00	**5.80**	5.00	**14.65**	13.60
Farmers Favorite	Westminster	**.63**	.60	**1.06**	1.00	**.20**		**10.30**	10.00	**5.86**	5.00	**17.20**	16.00
Potato Grower Fall Mixture	Westminster	**1.54**	1.20	**2.15**	2.00	**.70**		**8.70**	8.00	**5.74**	5.00	**20.26**	18.40
XX 1–9–3	Westminster	**.67**	.60	**1.11**	1.00	**.80**		**9.20**	9.00	**3.36**	3.00	**14.61**	13.60
XXX 1–9–4	Westminster	**.69**	.60	**1.13**	1.00	**.60**		**9.90**	9.00	**4.00**	4.00	**15.73**	14.40
Farmers and Planters Co., Salisbury, Md.													
Rock and Kainit	Salisbury					**.80**		**9.50**	7.00	**6.42**	5.00	**12.86**	9.60
Special Fish Mixture	Salisbury	**1.35**	1.52	**2.08**	2.00	**1.95**		**8.45**	8.00	**5.82**	5.00	**20.03**	18.40
Special Potash Mixture	Salisbury					**.50**		**12.20**	12.00	**5.28**	5.00	**14.06**	13.60
Frederick County Farmers Cooperative Association, Frederick, Md.													
Animal Tankage	Frederick			**10.02**	10.00								
Frederick Mehring Fertilizer Works, Inc., Keymar, Md.													
Big Four	Middleburg	**.63**	.62	**1.09**	1.00	**.83**		**8.82**	9.00	**4.24**	3.00	**14.94**	13.60
Indian Chief	Linwood	**.41**	.50	**1.02**	1.00	**.95**		**10.15**	10.00	**4.00**	4.00	**15.54**	15.20
Mammouth Truck Grower	Middleburg	**.89**	1.32	**1.78**	2.00	**1.00**		**8.20**	8.00	**6.18**	5.00	**18.77**	18.40
Potash Mixture	Linwood					**.45**		**12.15**	12.00	**5.90**	5.00	**14.51**	13.60

* Total Phosphoric Acid.

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		PHOSPHORIC ACID				POTASH K_2O.		Comparative Value per Ton Found	Comparative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
Griffith & Boyd Co., Baltimore, Md.													
Acid Phosphate H. G	Chewsville					**.60**		**17.00**	16.00			**$13.69**	$12.80
Fish and Potash Guano	Baltimore	**.99**	.36	**1.88**	1.75	**1.00**		**10.00**	10.00	**3.64**	3.00	**18.58**	17.40
Pure Fine Ground Bone Meal	Baltimore			**3.17**	4.50			***20.60**	*20.00			**25.04**	30.00
Royal Potash Guano	Baltimore	**.55**	.24	**1.01**	1.00	**.80**		**9.90**	9.00	**4.36**	4.00	**15.57**	14.40
Royal Potash Guano	Baltimore	**.65**	.24	**1.16**	1.00	**1.18**		**9.12**	9.00	**4.00**	4.00	**15.32**	14.40
Royal Potash Guano	Baltimore	**.77**	.24	**1.16**	1.00	**.85**		**9.00**	9.00	**4.46**	4.00	**15.54**	14.40
Special Formula	Baltimore	**.86**	.48	**2.00**	2.00	**.95**		**10.05**	10.00	**5.22**	4.00	**20.36**	19.20
Special Grain Grower	Baltimore					**.70**		**11.90**	12.00	**5.00**	5.00	**13.63**	13.60
XX Potash Manure	Baltimore					**.55**		**10.45**	10.00	**5.36**	5.00	**12.73**	12.00
Griffith & Turner Co., Balto., Md.													
Ammoniated Alkaline Plant Food	Baltimore	**.11**	.24	**1.08**	1.00	**.65**		**6.75**	6.50	**1.68**	1.50	**11.16**	10.40
Animal Bone Phosphate	Baltimore	**1.02**	.60	**2.59**	2.50	**1.05**		**10.25**	10.00	**1.64**	1.50	**20.03**	19.20
Ammoniated Butchers Bone	Baltimore	**.59**	.31	**1.60**	1.25	**1.85**		**7.65**	9.00	**3.78**	1.50	**15.82**	13.40
Soft Ground Bone Meal	Baltimore			**2.79**	3.00			***17.75**	*11.00			**21.81**	18.60
Special Potato Guano	Baltimore	**.65**	.24	**.99**	1.00	**.70**		**7.50**	8.00	**4.36**	4.00	**13.56**	13.60
Special Truck Mixture	Baltimore	**2.68**	.97	**4.01**	4.00	**1.30**		**7.30**	8.00	**9.20**	6.00	**29.44**	27.20
Gritco XL Plant Food	Baltimore	**3.36**		**3.56**	5.00	**.45**		**9.45**	8.00	**10.16**	3.50	**30.00**	29.20
Hampstead Fertlr. Co., Hampstead, Md.													
Acid Phosphate	Hampstead					**1.05**	1.00	**15.95**	16.00			**12.92**	12.95
1–8–4	Hampstead	**.70**	.60	**1.19**	1.00	**.93**		**7.27**	8.00	**4.36**	4.00	**14.21**	13.60
2–8–5	Hampstead	**1.28**	.60	**2.00**	2.00	**1.00**		**7.95**	8.00	**5.78**	5.00	**19.13**	18.40
2–8–4	Hampstead	**1.42**		**2.05**	2.00	**1.10**		**7.75**	8.00	**4.36**	4.00	**18.06**	17.60
2–12–4	Hampstead	**1.32**	.60	**2.00**	2.00	**.60**		**11.40**	12.00	**4.00**	4.00	**20.41**	20.80

Herbert F. Harr, Cockeysville, Md.													
2–8–2	Cockeysville	**1.28**	1.00	**2.01**	2.00	**1.70**		**8.50**	8.00	**3.92**	2.00	**18.24**	16.00
Horsey, Roe & Co., Greensboro, Md.													
Acid Phosphate 16%	Greensboro					**.35**		**18.25**	16.00			**14.65**	12.80
Crop Grower	Greensboro	**.82**	.50	**1.06**	1.00	**.40**		**11.00**	9.00	**5.34**	4.00	**17.37**	14.40
Kainit	Greensboro									**16.68**	12.00		
0–12–5	Greensboro					**.40**		**12.80**	12.00	**6.12**	5.00	**15.20**	13.60
Hubbard Fertilizer Co., Balto., Md.													
Jersey Trucker	Vienna	**1.45**	1.00	**2.01**	2.00	**.95**		**7.85**	8.00	**10.08**	10.00	**22.52**	22.40
Money Maker Fertilizer	Vienna	**1.67**	1.00	**2.18**	2.00	**1.25**		**7.05**	8.00	**5.36**	5.00	**18.84**	18.40
Money Maker Fertilizer	Baltimore	**1.67**	1.00	**2.10**	2.00	**1.10**		**8.10**	8.00	**5.16**	5.00	**19.18**	18.40
M. P. Hubbard & Co., Inc., Balto. Md.													
Big Crop Guano	Conowingo	**1.45**	.60	**2.12**	2.00	**.75**		**7.75**	8.00	**5.00**	5.00	**18.79**	18.40
Celebrated Alkaline Compound	Conowingo					**.83**		**11.87**	12.00	**4.68**	5.00	**13.36**	13.60
Jarecki Chemical Co., Balto., Md.													
Acid Phosphate	Cumberland					**.65**		**16.45**	16.00			**13.26**	12.80
4–16–4 Fertilizer	Cumberland	**3.82**	2.00	**3.91**	4.00	**.95**		**16.20**	16.00	**4.32**	4.00	**32.20**	32.00
Kuttroff, Pickhardt & Co., Inc., New York, N. Y.													
Calcium Nitrate Basf	Baltimore			**18.24**	18.24								
Floranid Basf	Baltimore			**56.20**	55.93								
J. Manns & Co., Baltimore, Md.													
Nitrate of Soda	Baltimore			**19.36**	18.00								
Maryland Milling & Supply Co., Sykesville, Md.													
Acid Phosphate H. G.	Sykesville					**.45**		**16.95**	16.00			**13.63**	12.80
Gambrill's Excelsior Super Phos	Sykesville	**.32**		**1.62**	2.00	**3.60**		**7.80**	8.00	**2.12**	2.00	**14.96**	16.00
Newman's Favorite	Sykesville	**1.03**		**1.80**	2.00	**2.40**		**8.00**	8.00	**5.64**	5.00	**18.47**	18.40
Phosphate and Potash	Sykesville					**.80**		**12.30**	12.00	**5.36**	5.00	**14.25**	13.60
0–10–5	Sykesville					**1.10**		**11.10**	10.00	**5.36**	5.00	**13.34**	12.00
Warfield's Special Mixture	Sykesville	**.18**		**1.02**	1.00	**2.15**		**7.55**	8.00	**6.08**	4.00	**15.30**	13.60

* Total Phosphoric Acid.

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		PHOSPHORIC ACID				POTASH K_2O.		Comparative Value per Ton Found	Comparative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
Massey & Wilmer, Chestertown, Md.													
Acid Phosphate H. G.	Chestertown	.....	.....	.....	.....	**.35**	.....	**18.35**	16.00	.....	.....	**$14.73**	$12.80
Crop Producer	Chestertown	**.51**	.....	**.89**	1.00	**1.10**	.....	**10.20**	9.00	**4.00**	4.00	**15.09**	14.40
Superphosphate 0–10–5	Chestertown	.....	.....	.....	.....	**1.20**	.....	**10.05**	10.00	**5.00**	5.00	**12.22**	12.00
Superphosphate 0–10–4	Chestertown	.....	.....	.....	.....	**1.15**	.....	**10.95**	10.00	**3.52**	4.00	**11.75**	11.20
Superphosphate 0–12–5	Chestertown	.....	.....	.....	.....	**1.10**	.....	**13.10**	12.00	**4.48**	5.00	**14.23**	13.60
Trustworthy	Chestertown	**1.28**	.97	**2.00**	2.00	**1.65**	.....	**9.25**	8.00	**5.00**	5.00	**19.65**	18.40
Medford Fertilizer Works, Medford, Md.													
1–8–5	Medford	**.26**	.25	**.91**	1.00	**.55**	.....	**8.65**	8.00	**4.82**	5.00	**14.50**	14.40
1–9–4	Medford	**.04**	.25	**.76**	1.00	**.45**	.....	**8.20**	9.00	**4.56**	4.00	**13.32**	14.40
1–10–5	Medford	**.05**	.25	**.77**	1.00	**.55**	.....	**9.00**	10.00	**5.72**	5.00	**14.94**	16.00
2–8–5	Medford	**.53**	.25	**1.31**	2.00	**.50**	.....	**7.50**	8.00	**6.04**	5.00	**16.15**	18.40
Miller Fertilizer Co., Baltimore, Md.													
Ammoniated	Baltimore	**1.47**	1.00	**2.03**	2.00	**.80**	.....	**8.30**	8.00	**2.40**	2.00	**16.80**	16.00
Grass and Grain	Baltimore	**1.47**	1.00	**2.08**	2.00	**.95**	.....	**9.95**	9.00	**3.28**	3.00	**19.04**	17.60
Harvest Queen	Baltimore	**.42**	.....	**1.09**	1.00	**.85**	.....	**9.35**	9.00	**4.00**	4.00	**15.17**	14.40
2–8–5	Baltimore	**1.67**	1.00	**2.18**	2.00	**1.00**	.....	**8.00**	8.00	**5.08**	5.00	**19.33**	18.40
Scott's Soluble Phosphate and Potash	Elkton	.....	.....	.....	.....	**.95**	.....	**12.35**	12.00	**5.08**	5.00	**14.08**	13.60
Scott's Soluble Phosphate and Potash	Baltimore	.....	.....	.....	.....	**.80**	.....	**12.20**	12.00	**5.28**	5.00	**14.10**	13.60
Scott's Special Grain Grower	Elkton	**.35**	.....	**1.02**	1.00	**1.00**	.....	**10.50**	9.00	**4.36**	4.00	**16.12**	14.40
Scott's Sure Growth Super-Phos.	Baltimore	**1.55**	1.00	**2.10**	2.00	**1.13**	.....	**8.87**	9.00	**3.00**	3.00	**18.07**	17.60
Scott's Sure Growth Super-Phos.	Elkton	**1.50**	1.00	**2.01**	2.00	**1.00**	.....	**9.20**	9.00	**3.20**	3.00	**18.11**	17.60
Tip Top Soluble Phosphate	Elkton	.....	.....	.....	.....	**1.20**	.....	**16.50**	16.00	.....	.....	**13.38**	12.80
Vegetable Compound	Baltimore	**3.07**	3.00	**3.55**	5.00	**1.05**	.....	**8.35**	8.00	**4.48**	5.00	**24.63**	30.40

Natural Guano Co., Aurora, Ill.													
"Sheep's Head" Pulverized Sheep Manure	Baltimore			**2.68**	2.73			***1.60**	*1.00	**2.08**	2.00	**13.34**	13.12
Nitrate Agencies Co., Baltimore, Md.													
NACO Brand Animal Tankage	Havre de Grace			**8.17**	9.00			***9.00**	*9.15			**38.08**	41.49
NACO Brand Dried Ground Fish	Baltimore			**10.71**	10.00			***7.05**	*4.51			**47.07**	42.71
NACO Brand Muriate of Potash	Baltimore									**51.40**	48.00		
NACO Brand Muriate of Potash	Havre de Grace									**52.20**	48.00		
NACO Brand Raw Bone	Aberdeen			**4.66**	4.50			***21.30**	*20.60			**31.42**	30.36
G. Ober & Sons Co., Baltimore, Md.													
Acid Phosphate H. G.	Baltimore					**.95**		**16.45**	16.00			**13.30**	12.80
Bone Mixture	Baltimore	**1.46**	.70	**2.01**	2.00	**2.20**		**9.20**	9.00	**5.36**	5.00	**20.02**	19.20
Bone Mixture	Baltimore	**1.60**	.70	**2.18**	2.00	**2.75**		**9.35**	9.00	**5.00**	5.00	**20.61**	19.20
Ground Tankage	Baltimore			**8.80**	9.00			***11.30**	*9.15			**41.98**	41.49
Pure Bone Meal	Baltimore			**3.78**	3.00			***24.00**	*22.00			**29.52**	25.20
Red Seal Wheat Guano	Baltimore	**1.37**	.70	**1.81**	2.00	**1.50**		**12.00**	12.00	**2.36**	2.00	**18.96**	19.20
Special Plant Food	Baltimore	**1.58**	.70	**2.01**	2.00	**1.50**		**9.30**	9.00	**5.36**	5.00	**20.00**	19.20
Special Plant Food	Baltimore	**1.48**	.70	**2.03**	2.00	**1.45**		**9.05**	9.00	**5.36**	5.00	**19.87**	19.20
Stag Guano	Baltimore	**.81**	.34	**1.19**	1.00	**1.00**		**9.00**	9.00	**4.20**	4.00	**15.47**	14.40
Stag Guano	Baltimore	**.88**	.34	**1.14**	1.00	**1.25**		**9.35**	9.00	**4.20**	4.00	**15.59**	14.40
Super Wheat & Grain Grower	Baltimore	**2.00**	1.00	**2.72**	3.00	**.90**		**12.10**	12.00	**3.32**	3.00	**23.36**	24.00
Super Wheat & Grain Grower	Baltimore	**2.01**	1.00	**2.78**	3.00	**1.10**		**12.20**	12.00	**3.20**	3.00	**23.61**	24.00
Super Wheat & Grain Grower	Baltimore	**1.95**	1.00	**2.72**	3.00	**1.05**		**11.95**	12.00	**3.24**	3.00	**23.19**	24.00
Swan "E" Fish Guano	Baltimore	**1.43**	.70	**2.01**	2.00	**1.40**		**9.30**	9.00	**3.08**	3.00	**18.15**	17.60
Swan "E" Fish Guano	Baltimore	**1.52**	.70	**2.03**	2.00	**1.40**		**9.30**	9.00	**3.12**	3.00	**18.27**	17.60
Twelve & Five Potash Compound	Baltimore					**.60**		**12.20**	12.00	**5.36**	5.00	**14.14**	13.60
Twelve & Five Potash Compound	Baltimore					**.55**		**12.25**	12.00	**5.36**	5.00	**14.17**	13.60
Old Gardener Co., Pittsburgh, Pa.													
Old Gardener Fertilizer	Baltimore			**3.19**	3.04	**2.69**		**9.11**	10.00	**4.36**	4.00	**23.95**	23.36
Oyler and Spangler Fertilizer Works, Gettysburg, Pa.													
Excelsior	Emmitsburg	**1.00**		**2.01**	2.00	**1.95**		**8.05**	8.00	**5.16**	5.00	**18.90**	18.40
Potash Special	Emmitsburg					**1.00**		**12.10**	12.00	**5.36**	5.00	**14.12**	13.60

* Total Phosphoric Acid.

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		PHOSPHORIC ACID				POTASH K_2O.		Comparative Value per Ton Found	Comparative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
Pacific Manure & Fertilizer Co., San Francisco, Cal.													
Groz-It Pulverized Sheep Manure	Baltimore	.....	.....	**1.86**	1.50	.....	.....	***1.00**	***.75**	**2.80**	2.50	**$10.28**	$ 8.45
Patuxent Guano Co., Baltimore, Md.													
Acid Phosphate H. G.	Baltimore	.....	.....	.....	.....	**2.20**	.....	**16.20**	16.00	.....	.....	**13.29**	12.80
Champion Fertilizer	Baltimore	**1.42**	1.02	**2.00**	2.00	**.90**	.....	**8.60**	8.00	**5.20**	5.00	**19.18**	18.40
Champion Fertilizer	Baltimore	**1.08**	1.02	**1.51**	2.00	**1.45**	.....	**8.65**	8.00	**4.44**	5.00	**16.73**	18.40
Potash Mixture	Baltimore	.....	.....	.....	.....	**.90**	.....	**12.20**	12.00	**5.04**	5.00	**13.93**	13.60
Peerless Fertl. Co., Chestertown, Md.													
Acid Phosphate	Chestertown	.....	.....	.....	.....	**.65**	.....	**16.85**	16.00	.....	.....	**13.58**	12.80
Imperial Compound	Chestertown	**.72**	.48	**1.04**	1.00	**.95**	.....	**9.05**	9.00	**4.36**	4.00	**15.03**	14.40
Imperial Compound	Chestertown	**1.49**	.48	**1.84**	1.00	**1.00**	.....	**9.30**	9.00	**4.98**	4.00	**18.93**	14.40
Kainit	Chestertown	.....	.....	.....	.....	.....	.....	.....	.....	**14.24**	12.00	.....	.....
Rock and Kainit	Chestertown	.....	.....	.....	.....	**.35**	.....	**9.45**	8.00	**6.24**	6.00	**12.60**	11.20
Peerless 2-8-5	Chestertown	**1.45**	.90	**1.88**	2.00	**1.05**	.....	**8.75**	8.00	**5.58**	5.00	**19.14**	18.40
0-12-5	Chestertown	.....	.....	.....	.....	**.75**	.....	**12.25**	12.00	**6.16**	5.00	**14.84**	13.60
0-12-5	Chestertown	.....	.....	.....	.....	**.88**	.....	**12.42**	12.00	**5.36**	5.00	**14.36**	13.60
2-12-4	Chestertown	**1.22**	.90	**1.92**	2.00	**1.00**	.....	**12.30**	12.00	**4.36**	4.00	**21.16**	20.80
0-10-5	Chestertown	.....	.....	.....	.....	**1.15**	.....	**9.95**	10.00	**6.36**	5.00	**13.22**	12.00
Piedmont-Mt. Airy Guano Co., Baltimore, Md.													
Acid Phosphate	Preston	.....	.....	.....	.....	**.93**	.....	**16.37**	16.00	.....	.....	**13.24**	12.80
Acid Phosphate	Baltimore	.....	.....	.....	.....	**1.55**	.....	**16.15**	16.00	.....	.....	**13.15**	12.80

Farmers Favorite	Trappe	**.56**	.62	**1.19**	1.00	**1.03**		**8.42**	9.00	**4.39**	4.00	**15.97**	14.40
Harvest Queen	Baltimore	**.39**	.32	**1.04**	1.00	**.90**		**8.50**	8.00	**3.90**	4.00	**14.22**	13.60
Harvest Queen	Baltimore	**.36**	.32	**1.08**	1.00	**1.00**		**8.30**	8.00	**3.84**	4.00	**14.18**	13.60
Muriate of Potash	Baltimore									**48.30**	48.00		
Muriate of Potash	Baltimore									**45.60**	48.00		
Peerless Phosphate	Derwood	**.34**		**1.06**	1.00	**2.08**	2.00	**8.07**	8.00	**3.36**	3.00	**13.70**	13.10
Perfection Guano	Baltimore	**1.37**	.43	**2.00**	2.00	**1.63**		**8.17**	8.00	**5.16**	5.00	**18.91**	18.40
Perfection Guano	Baltimore	**1.38**	.43	**2.03**	2.00	**1.50**		**8.10**	8.00	**5.16**	5.00	**18.96**	18.40
Phosphate and Lime	Baltimore					**4.80**		**12.25**	13.00			**10.52**	10.40
9% Tankage	Baltimore			**7.92**	9.00			***12.50**	*10.00			**39.18**	42.00
9% Tankage	Baltimore			**8.83**	9.00			***13.80**	*10.00			**43.60**	42.00
Wheat Compound	Preston					**1.25**		**12.05**	12.00	**5.20**	5.00	**13.99**	13.60
Wheat Compound	Baltimore					**1.35**		**12.05**	12.00	**5.08**	5.00	**13.90**	13.60
Wheat Compound	Baltimore					**1.15**		**12.45**	12.00	**5.00**	5.00	**14.13**	13.60
Wheat Compound	Baltimore					**1.03**		**11.82**	12.00	**5.00**	5.00	**13.61**	13.60
Plant Biscuit Co., Towson, Md.													
Plant Biscuits	Baltimore	**13.82**		**13.89**	13.00			***23.80**	*19.00	**23.04**	20.00	**88.27**	79.40
Plant Products Co., Baltimore, Md.													
PlanTabbs	Baltimore			**13.67**	13.37			***18.60**	*15.00	**28.46**	20.00	**88.61**	78.48
PlanTabbs	Baltimore			**13.71**	13.37			***19.00**	*15.00	**26.82**	20.00	**87.70**	78.48
Pulverized Manure Co., Chicago, Ill.													
Wizard Brand Sheep Manure	Baltimore			**2.07**	2.43			***1.30**	*1.25	**2.36**	2.00	**10.95**	12.07
Wizard Brand Sheep Manure	Baltimore			**2.56**	2.43			***1.60**	*1.25	**2.08**	2.00	**12.86**	12.07
Wizard Brand Cattle Manure	Baltimore			**2.80**	2.10			***1.20**	*1.00	**1.90**	1.00	**13.44**	9.80
Ramsburg Fertilizer Co., Frederick, Md.													
Ammoniated Bone Phosphate	Frederick	**.41**	.85	**.99**	1.00	**2.00**		**11.80**	10.00	**2.66**	3.00	**15.83**	14.40
Excelsior Half and Half	Frederick	**.27**	.85	**.99**	1.00	**1.65**		**11.65**	10.00	**3.06**	2.00	**15.98**	13.60
Excelsior Plant Food	Frederick	**.50**	.85	**1.90**	2.00	**.90**		**12.80**	12.00	**2.20**	2.00	**19.74**	19.20
Old Virginia Compound	Frederick	**.33**	.85	**1.04**	1.00	**1.45**		**11.20**	10.00	**5.24**	5.00	**17.53**	16.00

* Total Phosphoric Acid.

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		PHOSPHORIC ACID				POTASH K_2O.		Comparative Value per Ton Found	Comparative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
Rasin Monumental Co., Baltimore,	**Md.**												
Double National Brand	Baltimore	**1.83**	.78	**2.00**	2.00	**.55**		**16.35**	16.00	**8.72**	8.00	$28.14	$27.20
Double National Brand	Baltimore	**1.70**	.78	**2.01**	2.00	**.45**		**15.95**	16.00	**8.24**	8.00	**27.46**	27.20
High Grade Potash Mixture	Baltimore					**.55**		**12.05**	12.00	**5.16**	5.00	**13.85**	13.60
National Crop Compound	Baltimore	**.68**	.49	**1.02**	1.00	**.75**		**9.15**	9.00	**4.36**	4.00	**15.00**	14.40
Reindollar Co., Taneytown, Md.													
Acid Phosphate	Taneytown					**1.20**		**16.60**	16.00			**13.46**	12.80
Grain Grower	Taneytown	**1.37**		**2.26**	2.00	**2.50**		**10.80**	10.00	**5.82**	5.00	**22.72**	20.00
Pea Phosphate	Taneytown					**.60**		**12.70**	12.00	**10.92**	10.00	**18.99**	17.60
Rock and Potash	Taneytown					**1.35**		**13.25**	12.00	**6.68**	6.00	**16.14**	14.40
F. S. Royster Guano Co., Baltimore,	**Md.**												
Acid Phosphate	Baltimore					**1.55**		**16.45**	16.00			**13.39**	12.80
Acid Phosphate	Baltimore					**1.20**		**16.40**	16.00			**13.36**	12.80
Banner Guano	Baltimore	**1.18**	1.33	**2.00**	2.00	**1.05**		**8.05**	8.00	**9.36**	10.00	**22.10**	22.40
Bully Guano	Baltimore	**1.38**	1.33	**2.08**	2.00	**1.55**		**8.25**	8.00	**5.16**	5.00	**19.28**	18.40
Fish, Flesh and Fowl	Baltimore	**1.08**	1.33	**2.00**	2.00	**1.45**		**9.05**	9.00	**3.04**	3.00	**17.89**	17.60
4-16-4	Baltimore	**3.52**	2.66	**3.98**	4.00	**1.25**		**15.65**	16.00	**5.06**	4.00	**32.68**	32.00
Rational Guano	Baltimore	**.43**	.66	**1.01**	1.00	**1.90**		**9.40**	9.00	**4.36**	4.00	**15.34**	14.40
Rational Guano	Baltimore	**.62**	.66	**1.18**	1.00	**1.60**		**9.00**	9.00	**4.20**	4.00	**15.52**	14.40
Rational Guano	Baltimore	**.51**	.66	**1.16**	1.00	**1 65**		**9.05**	9.00	**4.36**	4.00	**15.62**	14.40
Phosphate and Potash	Baltimore					**.95**		**12.15**	12.00	**5.36**	5.00	**14.15**	13.60
Phosphate and Potash	Baltimore					**.90**		**12.00**	12.00	**5.36**	5.00	**14.03**	13.60
Sheep Manure	Rockville			**2.19**	2.00			***.90**	*1.00	**2.28**	2.00	**11.12**	10.20
Vim Guano	Rockville	**1.67**	1.33	**2.08**	2.00	**1.40**		**13.50**	12.00	**2.24**	2.00	**21.12**	19.20

W. A. Simpson Co., Baltimore, Md.													
Purity Brand Pulverized Sheep Manure	Baltimore			**1.86**	1.83			***1.10**	*1.25	**3.00**	3.00	**10.50**	10.47
R. H. Slingluff Fertilizer Co., Baltimore, Md.													
Excelsior Potash Mixrure	Baltimore					**1.00**		**12.20**	12.00	**5.24**	5.00	**14.10**	13.60
Excelsior Potash Mixture	Baltimore					**1.30**		**11.90**	12.00	**5.04**	5.00	**13.75**	13.60
Stumpp & Walter Co., Baltimore, Md.													
Nitrate of Soda	Baltimore			**19.06**	18.00								
Pulverized Sheep Manure	Baltimore			**2.63**	2.25			***1.20**	*1.50	**2.22**	2.00	**13.02**	11.50
Summers Fertilizer Co., Baltimore, Md.													
"Best on Earth" Jones Favorite	Laurel	**2.26**	1.50	**3.04**	3.00	**2.23**		**10.97**	12.00	**3.10**	3.00	**23.75**	24.00
"Best on Earth" Jones Favorite	Laurel	**2.07**	1.50	**3.09**	3.00	**1.00**		**12.30**	12.00	**3.38**	3.00	**25.05**	24.00
"Best on Earth" 3-12-5	Laurel	**2.15**	1.50	**2.99**	3.00	**1.20**		**12.10**	12.00	**5.24**	5.00	**26.01**	25.60
"Best on Earth" Wheat Special	Laurel	**1.23**		**1.96**	2.00	**1.30**		**11.85**	12.00	**2.36**	2.00	**19.41**	19.20
Superior Guano Co., Baltimore Md.													
Acid Phosphate	Baltimore					**1.50**		**16.00**	16.00			**13.03**	12.80
Crab Tankage	Baltimore			**4.88**	3.50								
Caroline Special	Baltimore	**.64**	.31	**1.19**	1.00	**.80**		**9.30**	9.00	**3.00**	3.00	**14.72**	13.60
Caroline Special	Baltimore	**.64**	.31	**1.19**	1.00	**1.40**		**9.00**	9.00	**3.12**	3.00	**14.67**	13.60
Phosphate and Potash	Baltimore					**.70**		**11.70**	12.00	**5.24**	5.00	**13.66**	13.60
Swift & Co., Baltimore, Md.													
Red Steer 4-8-4	Elkridge	**2.92**	2.60	**3.70**	4.00	**.70**		**8.10**	8.00	**4.00**	4.00	**24.59**	25.60
Red Steer 1-9-4	Baltimore	**.80**	.65	**1.06**	1.00	**.80**		**8.90**	9.00	**4.28**	4.00	**14.90**	14.40
Red Steer 2-8-5	Baltimore	**1.50**	1.30	**2.01**	2.00	**.75**		**8.45**	8.00	**5.24**	5.00	**19.10**	18.40
Red Steer 2-8-5	Baltimore	**1.69**	1.30	**2.00**	2.00	**.50**		**8.30**	8.00	**5.58**	5.00	**19.18**	18.40
Red Steer 2-8-5	Baltimore	**1.60**	1.30	**1.98**	2.00	**.95**		**8.35**	8.00	**5.24**	5.00	**18.93**	18.40
Red Steer 2-8-5	Baltimore	**1.57**	1.30	**1.98**	2.00	**1.05**		**8.65**	8.00	**5.32**	5.00	**19.26**	18.40
Red Steer 0-12-5	Baltimore					**1.10**		**12.60**	12.00	**5.16**	5.00	**14.38**	13.60
Red Steer 0-12-5	Baltimore					**.65**		**12.45**	12.00	**5.04**	5.00	**14.09**	13.60
Roan Steer Guano 2-12-2	Baltimore	**1.74**	.78	**2.08**	2.00	**.85**		**12.30**	12.00	**2.36**	2.00	**20.18**	19.20

* Total Phosphoric Acid.

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		PHOSPHORIC ACID				POTASH K_2O.		Comparative Value per Ton Found	Compaative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
Thomas & Co., Frederick, Md.													
Acid Phosphate	Gaithersburg					**1.30**		**15.65**	16.00			$12.72	$12.80
Alkaline Bone	Gaithersburg					**1.00**		**13.70**	12.00	**3.70**	5.00	**14.07**	13.60
Crop Grower	Frederick	**.32**	.45	**.73**	1.00	**.55**		**11.95**	8.00	**4.72**	1.00	**16.34**	11.20
Harvest Queen	Gaithersburg	**.73**	.45	**1.19**	1.25	**1.30**		**10.70**	10.00	**2.16**	2.00	**15.25**	14.60
Harvest Queen	Gaithersburg	**1.28**	.45	**1.79**	1.25	**.80**		**8.00**	10.00	**5.08**	2.00	**17.74**	14.60
Harvest Queen	Frederick	**.99**	.45	**1.43**	1.25	**1.30**		**10.50**	10.00	**2.32**	2.00	**16.18**	14.60
Wheat and Grass Grower	Gaithersburg	**.07**	.50	**.70**	2.00	**2.15**		**11.90**	8.00	**3.00**	5.00	**15.04**	18.40
Wm. B. Tilghman Co., Inc., Salisbury, Md.													
Acid Phosphate	Salisbury					**1.05**		**17.25**	16.00			**13.96**	12.80
Bone Tankage Mixture	Salisbury	**1.42**	1.00	**2.20**	2.00	**1.50**		**11.90**	12.00	**4.24**	4.00	**21.94**	20.80
H. G. Potash Mixture	Salisbury	**1.67**	1.00	**2.27**	2.00	**1.00**		**8.30**	8.00	**11.64**	10.00	**25.18**	22.40
Phosphate and Potash	Baltimore					**1.30**		**12.00**	12.00	**6.48**	5.00	**14.98**	13.60
Phosphate and Potash	Salisbury					**1.10**		**12.00**	12.00	**5.24**	5.00	**13.96**	13.60
Special Wheat Mixture	Baltimore	**.94**	.50	**1.28**	1.00	**.95**		**10.25**	10.00	**6.06**	5.00	**18.31**	16.00
Special Wheat Mixture	Salisbury	**.46**	.50	**1.11**	1.00	**1.20**		**10.20**	10.00	**5.76**	5.00	**17.39**	16.00
Standard	Baltimore	**1.58**	1.00	**2.13**	2.00	**.85**		**9.35**	8.00	**6.18**	5.00	**21.07**	18.40
Standard	Salisbury	**1.61**	1.00	**2.17**	2.00	**1.00**		**8.30**	8.00	**6.18**	5.00	**20.41**	18.40
F. W. Tunnell & Co., Philadelphia, Pa.													
Muriate of Potash	Preston									**55.90**	50.00		
Veribest Cereal Manure	Preston	**.65**		**2.00**	2.00	**1.05**		**8.45**	8.00	**5.36**	5.00	**19.21**	18.40
Wheat and Cereal Manure	Preston	**.65**		**1.04**	1.00	**.95**		**9.85**	9.00	**4.12**	4.00	**15.48**	14.40

United States Guano Co., Baltimore, Md.													
Acid Phosphate	Baltimore					**.15**		**16.15**	16.00			**12.94**	12.80
Acid Phosphate	Baltimore					**.10**		**20.20**	20.00			**16.18**	16.00
General Use Guano	Baltimore	**1.30**	1.00	**2.00**	2.00	**1.25**		**12.15**	12.00	**3.72**	4.00	**20.89**	20.80
General Use Guano	Baltimore	**1.40**	1.00	**2.17**	2.00	**1.45**		**12.05**	12.00	**4.00**	4.00	**21.74**	20.80
Mammoth Truck Grower	Baltimore	**1.16**	.75	**1.91**	2.00	**1.55**		**8.25**	8.00	**4.36**	5.00	**17.96**	18.40
Muriate of Potash	Baltimore									**50.00**	50.00		
Nitrate of Soda	Baltimore			**18.98**	18.00								
Quick Crop Grower	Baltimore	**1.03**	1.00	**2.05**	2.00	**1.35**		**8.05**	8.50	**2.28**	2.00	**16.66**	16.40
Rainbow Brand	Baltimore	**1.35**	1.00	**2.10**	2.00	**1.70**		**12.10**	12.00	**3.02**	2.00	**20.76**	19.20
2-9-3	Baltimore	**.85**	1.00	**2.03**	2.00	**1.25**		**10.55**	9.00	**3.28**	3.00	**19.37**	17.60
Standard United States Service Mix	Hagerstown	**1.44**	.99	**2.05**	2.00	**1.85**		**11.75**	12.00	**5.22**	6.00	**22.06**	22.40
Valliant Fertilizer Co., Laurel, Del.													
Diamond	Princess Anne	**1.62**		**2.01**	2.00	**.70**		**9.50**	8.00	**6.24**	5.00	**20.74**	18.40
Harvest	Princess Anne					**.65**	.50	**13.05**	12.00	**5.36**	5.00	**14.83**	13.68
E. S. Valliant & Son, Centerville, Md.													
Acid Phosphate	Centreville					**.20**		**18.00**	16.00			**14.43**	12.80
Ammoniated Potash Mixture	Centreville	**.59**	.50	**1.02**	1.00	**.75**		**11.05**	11.00	**5.86**	5.00	**17.72**	16.80
Animal Bone Mixture	Centreville	**.34**	.31	**1.16**	1.00	**1.20**		**11.50**	11.00	**5.14**	4.00	**18.13**	16.00
Big Three	Centreville	**.36**	.50	**.99**	1.00	**1.20**		**9.50**	9.00	**3.36**	3.00	**14.43**	13.60
McKenney's Mixture	Centreville	**.95**	.50	**2.08**	2.10	**.90**		**10.40**	9.20	**5.84**	5.00	**21.45**	19.76
Oriole	Centreville			**.56**	.50	**.60**		**9.30**	9.00	**4.36**	4.00	**13.26**	12.40
Oriole	Centreville			**.61**	.50	**.65**		**8.65**	9.00	**4.72**	4.00	**13.24**	12.40
Potash Mixture	Centreville					**2.65**		**9.25**	10.00	**3.80**	2.00	**10.84**	9.60
Standard	Centreville	**.27**	.50	**.85**	1.00	**1.15**		**9.65**	9.00	**4.36**	4.00	**14.78**	14.40
0-10-5	Centreville					**2.25**		**10.15**	10.00	**4.54**	5.00	**12.09**	12.00
0-12-5	Centreville					**.60**		**11.80**	12.00	**6.04**	5.00	**14.36**	13.60
W. H. Valliant & Bro., Bellevue, Md.													
1-8-4	Bellevue	**.28**	.87	**1.01**	1.00	**1.05**		**8.95**	8.00	**7.14**	4.00	**17.07**	13.60
Lime and Potash	Bellevue									**7.28**	5.00		
0-12-5	Bellevue					**.30**		**12.80**	12.00	**6.38**	5.00	**15.39**	13.60

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		PHOSPHORIC ACID				POTASH K_2O.		Comparative Value per Ton Found	Comparative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
Virginia Carolina Chemical Corp., Baltimore, Md.													
Acid Phosphate	Cumberland					**1.45**		**17.25**	16.00			$14.02	$12.80
Electric Brand	Baltimore	**.65**	.49	**1.08**	1.00	**.50**		**9.80**	9.00	**4.08**	4.00	**15.50**	14.40
Fish Bone and Potash	Baltimore	**1.20**	.78	**2.00**	2.00	**2.35**		**8.80**	9.00	**3.20**	3.00	**17.95**	17.60
Phosphate and Lime Mixture	Baltimore					**1.25**		**14.45**	13.00			**11.75**	10.40
Phosphate and Lime Mixture	Baltimore					**1.25**		**13.65**	13.00			**11.11**	10.40
Roan Steer Guano No. 2	Baltimore	**1.74**	.78	**2.08**	2.00	**.60**		**12.40**	12.00	**2.24**	2.00	**20.12**	19.20
Roan Steer Guano No. 2	Baltimore	**1.71**	.78	**2.00**	2.00	**.75**		**12.35**	12.00	**2.36**	2.00	**19.88**	19.20
Westminster Fertilizer Co., Westminster, Md.													
Acid Phosphate	Westminster					**.25**		**17.95**	16.00			**14.40**	12.80
Governor	Westminster	**.97**	.74	**1.60**	1.50	**1.55**		**9.55**	11.00	**3.86**	3.00	**17.55**	17.20
Leader	Westminster	**.48**	.49	**.99**	1.00	**1.30**		**8.45**	9.00	**4.24**	4.00	**14.31**	14.40
Super-A	Westminster	**.58**	.49	**.99**	1.00	**1.00**		**9.90**	10.00	**2.82**	2.00	**14.43**	13.60
2-8-5	Westminster	**1.02**	1.00	**1.82**	2.00	**1.15**		**7.70**	8.00	**5.64**	5.00	**18.40**	18.40
White Rose Plant Food Co., York, Pa.													
White Rose Plant Food	Baltimore	**1.26**		**5.00**	5.00	**.20**		**10.00**	8.00	**3.92**	3.00	**31.17**	28.80
Wiseman-Downs Co., Baltimore, Md.													
Ground Raw Bone	Baltimore			**4.69**	4.50			***20.60**	*21.52			**31.12**	30.91
Wisdom Brand Blood, Bone and Tankage Mixture	Baltimore	**3.75**	2.50	**5.00**	5.00	**.75**		**9.35**	8.00	**5.08**	5.00	**31.65**	30.40

Worcester Fertilizer Co., Snow Hill, Md.													
Correct Plant Food Mixture 1-9-4	Snow Hill	**.79**	.33	**1.47**	1.00	**1.05**		**9.45**	9.00	**4.36**	4.00	**17.09**	14.40
Correct Plant Food Mixture 2-8-5	Snow Hill	**1.59**	.66	**2.53**	2.00	**1.20**		**8.30**	8.00	**5.36**	5.00	**21.23**	18.40
Correct Plant Food Mixture 0-12-5	Snow Hill					**.90**		**11.60**	12.00	**6.72**	5.00	**14.80**	13.60
R. B. Wyand, Chewsville, Md.													
Dissolved Phosphate	Chewsville					**.50**		**16.60**	16.00			**13.36**	12.80
Golden Harvest	Chewsville	**1.04**		**2.05**	2.00	**.90**		**10.80**	10.00	**5.64**	5.00	**21.49**	20.00
Grain Mixture	Chewsville			**.99**	1.00	**1.23**		**8.02**	9.00	**5.28**	4.00	**14.78**	14.40
Muriate of Potash	Chewsville									**49.80**	50.00		
Phosphate and Potash Mixture	Chewsville					**.30**		**11.30**	12.00	**5.20**	5.00	**13.25**	13.60

* Total Phosphoric Acid.